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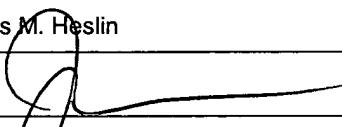
(to be used for all correspondence after initial filing)

		Application Number	10/691,755
		Filing Date	October 22, 2003
		First Named Inventor	CHISHTI, MUHAMMAD
		Art Unit	Unassigned
		Examiner Name	Unassigned
Total Number of Pages in This Submission		Attorney Docket Number	018563-005020US

ENCLOSURES (Check all that apply)

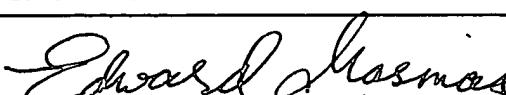
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP James M. Heslin	
Signature		
Date	November 20, 2003	

CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Edward Masinas		
Signature		Date	November 20, 2003

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On 11-20-03

TOWNSEND and TOWNSEND and CREW LLP

By: Edward Masinas
Edward Masinas

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT
Attorney Docket No.: 018563-005020US
Client Reference No.: AT-00107.2



In re application of:

MUHAMMAD CHISHTI, et al.

Application No.: 10/691,755

Filed: October 22, 2003

For: DEFINING TOOTH-MOVING
APPLIANCES COMPUTATIONALLY

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

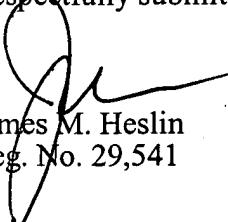
The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 10/228,885, filed October 22, 2003 (Attorney Docket No. 018563-005010US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,


James M. Heslin
Reg. No. 29,541

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<p>Substitute for form 1419A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)</p>				<i>Complete if Known</i>	
				Application Number	10/691,755
				Filing Date	October 22, 2003
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	of	4	Attorney Docket Number	018563-005020US

U.S. PATENT DOCUMENTS+				
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number Kind Code ² (if known)		
	1	US-3,660,900	05-09-1972	Andrews
	2	US-3,860,803	01-14-1975	Levine
	3	US-4,348,178	09-07-1982	KURZ
	4	US-4,504,225	03-12-1985	Yoshii
	5	US-4,505,673	03-19-1985	Yoshii
	6	US-4,755,139	07-05-1988	Abbatte et al.
	7	US-4,793,803	12-27-1988	Martz
	8	US-4,798,534	01-17-1989	Breads
	9	US-4,836,778	06-06-1989	Baumrind et al.
	10	US-4,856,991	08-15-1989	Breads et al.
	11	US-4,936,862	06-26-1990	Walker et al.
	12	US-5,011,405	04-30-1991	Lemchen
	13	US-5,017,133	05-21-1991	Miura
	14	US-5,035,613	07-30-1991	Breads et al.
	15	US-5,055,039	10-08-1991	Abatte et al.
	16	US-5,059,118	10-22-1991	Breads et al.
	17	US-5,139,419	08-18-1992	Andreiko et al.
	18	US-5,186,623	02-16-1993	Breads et al.
	19	US-5,273,429	12-28-1993	Rekow et al.
	20	US-5,338,198	08-16-1994	Wu et al.
	21	US-5,340,309	08-23-1994	Robertson
	22	US-5,342,202	08-30-1994	Deshayes
	23	US-5,367,478	11-29-1994	Andreiko et al.
	24	US-5,382,164	01-17-1995	Stern
	25	US-5,395,238	03-07-1995	Andreiko et al.
	26	US-5,431,562	07-11-1995	Andreiko et al.
	27	US-5,447,432	09-05-1995	Andreiko et al.
	28	US-5,452,219	09-19-1995	Dehoff et al.
	29	US-5,454,717	10-03-1995	Andreiko et al.
	30	US-5,456,600	10-10-1995	Andreiko et al.
	31	US-5,474,448	12-12-1995	Andreiko et al.
	32	US-5,533,895	07-09-1996	Andreiko et al.
	33	US-5,542,842	08-06-1996	Andreiko et al.
	34	US-5,549,476	08-27-1996	Stern
	35	US-5,587,912	12-24-1996	Andersson et al.
	36	US-5,605,459	02-25-1997	Kuroda et al.
	37	US-5,607,305	03-04-1997	Andersson et al.
	38	US-5,621,648	04-15-1997	Crump
	39	US-5,645,421	07-08-1997	Slootsky
	40	US-5,683,243	11-04-1997	Andreiko et al.
	41	US-5,848,115	12-08-1998	Little et al.

Examiner Signature	Date Considered
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.



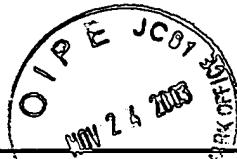
Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/691,755
		Filing Date	October 22, 2003
		First Named Inventor	CHISHTI, MUHAMMAD
		Art Unit	Unassigned
		Examiner Name	Unassigned
Sheet	2	of	4
		Attorney Docket Number	018563-005020US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	42	US-6,217,334	04-17-2001	Hultgren	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
43	FR	2 369 828		Jun. 1978		<input type="checkbox"/>
44	WO	94/10935		May-94		<input type="checkbox"/>
45	WO	98/32394		Jul-88		<input type="checkbox"/>

Examiner Signature	Date Considered
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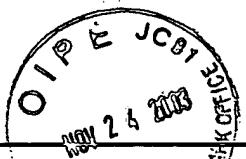
Substitute for form 1449B/PTC INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	3	of	4	Application Number	10/691,755
				Filing Date	October 22, 2003
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	018563-005020US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	46	Biostar Operation & Training Manual, Great Lakes Orthodontics, Ltd. 199 Fire Tower Drive, Tonawanda, New York, 14150-5890, 20 pages total.	
	47	Chiappone, (1980). "Constructing the gnathologic setup and positioner" J. Clin. Orthod. 14:121-133.	
	48	Cottingham, (1969). "Gnathologic clear plastic positioner" Am. J. Orthod. 55:23-31.	
	49	Cureton, (1996). "Correcting malaligned mandibular incisors with removable retainers" J. Clin. Orthod. 30:390-395.	
	50	Doyle, (2000). "Digital Dentistry" Computer Graphics World, October 2000 pp.50-52, 54.	
	51	Elsasser, (1950). "Some observations on the history and uses of the Kesling positioner" Am. J. Orthod. 36:368-374.	
	52	Kamada et al., (1984). "Case reports on tooth positioners using LTV vinyl silicone rubber" J. Nihon University School of Dentistry 26(1):11-29.	
	53	Kamada et al., (1982). "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" J. Nihon University School of Dentistry 24(1):1-27.	
	54	Kesling, (1946). "Coordinating the predetermined pattern and tooth positioner with conventional treatment" Am. J. Orthod. Oral. Surg. 32:285-293.	
	55	Kesling, (1945). "The philosophy of the tooth positioning appliance" Am. J. Orthod. Oral. Surg. 31(6):297-304.	
	56	Kleemann et al., (1996). "The speed positioner" J. Clin. Orthod. 30:673-680.	
	57	Kuroda et al., (1996). "Three-dimensional dental cast analyzing system using laser scanning" Am. J. Orthod. Dentofac. Orthop. 110:365-369.	
	58	Nippon Dental Review "New orthodontic device-dynamic positioner (.D.P.)-I. Approach to the proposal of D.P. and transparent silicone rubber" (1980) 452:61-74.	
	59	Nippon Dental Review "New orthodontic device-dynamic positioner (D.P.)-II. Practical application and construction of D.P." (1980) 454:107-130.	
	60	Nippon Dental Review "New orthodontic device-dynamic positioner (D.P.)-III. Case reports of reversed occlusion" (1980) 457:146-164.	
	61	Nippon Dental Review "New orthodontic device-dynamic positioner (D.P.)-Case reports of reversed occlusion" (1980) 458:112-129.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(use as many sheets as necessary)					
Sheet	4	of	4		
				Attorney Docket Number	018563-005020US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	62	Nishiyama et al., (1977). "A new construction of tooth repositioner by LTV vinyl silicone rubber" J. Nihon University School of Dentistry 19(2):93-102.		
	63	Raintree Essix.TM. & ARS Materials, Inc., Raintree Essix.TM., Technical Magazine Table of Contents and Essix.TM. Applications, http://www.essix.com/magazine/default.html (Aug. 13, 1997) 7 pages total.		
	64	Redmond et al. (2000). "Clinical Implications of Digital Orthodontics," Am. J. Orthodont. Dentofacial Orthopedics 117(2):240-242.		
	65	Shilliday, (1971). "Minimizing finishing problems with the mini-positioner" Am. J. Orthod. 59:596-599.		
	66	Warunek et al., (1989). "Clinical use of silicone elastomer appliances" JCO XXIII(10):694-700.		
	67	Warunek et al., (1989). "Physical and mechanical properties of elastomers in orthodontic positioners" Am. J. Orthod. Dentofac. Orthop. 95:388-400.		
	68	Wells, (1970). "Application of the positioner appliance in orthodontic treatment" Am. J. Orthodont. 58:351-366.		

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